

# HIDROMAL

*Cement-based ready-mix compound for the execution of rigid waterproofing. Hidromal is prepared with specially selected cement, high-quality fillers, powdery admixtures*

## Field of application:

It is used for waterproofing of structures subjected to positive and negative hydrostatic pressure, such as pools and ponds, settling tanks, water treatment plants, wall and floor surfaces of cellars and basements, reservoirs for drinking water, concrete pipes, manholes, sanitary facilities and the like.

## Properties:

- One-component grey powdery compound;
- Resistant to positive and negative hydrostatic pressure;
- Economical;
- Non-toxic;
- Enables direct finishing treatment of wall surfaces;
- Enables direct gluing of ceramic tiles with building adhesive;
- Bacteriologically resistant;
- Simple for execution;
- Excellent adhesion to the substrate;
- Possible application upon moist substrate;
- Does not contain chlorides;

## Technical features:

|   |                                    |
|---|------------------------------------|
| Resistance to positive water pressure: (DIN 1048) | 8 atm.                             |
| Resistance to negative water pressure: (DIN 1048) | 2 atm.                             |
| Open workability time for work at 20°C:           | 1 hour                             |
| Compressive strength:                             | 3 days >15 MPa<br>28 days > 35 MPa |
| Application of subsequent coating at 20°C:        | 6-24 hours                         |

## Substrate preparation:

Hidromal is applied upon concrete and cement (with finishing fine floating) which should possess strength (grade) of MB 30 MPa and which should have matured for minimum 28 days since the day of concreting. The substrate should be sound, clean, cleaned of dust and grease without segregated spots and cracks. If the substrate has got segregated spots or cracks, they should be rehabilitated by using Reparatur (Repair) mortar or else epoxy sealant Adingpoks-K. Cleaning the substrate with water under pressure is the most appropriate method. The substrate is wetted with water up to saturation. If there is flowing water on the substrate which is being insulated, it should be stopped by using Accelerator-C or else some other appropriate material.

## Placement:

Hidromal is prepared by adding pure water in a mixing proportion Hidromal : water = 3,7 : 1,0 (for application with a brush) or else Hidromal : water = 5,0 : 1,0 (for application with a skimmer). It is mixed with an electric slow mixer (300 to 500 revolutions/min.) until complete homogenization is reached, is allowed to lie for 10-15 minutes and then is mixed again.

The application of the material is performed with brushes (120 mm - 200 mm wide) for the first two layers, while the third one is applied by means of a steel skimmer. Each subsequent layer is applied upon a previously dried out layer. The time gap between application of the layers amounts to 6-24 hours depending on the temperature. The overall thickness of all three layers is approximately 2,5 to 3,5 mm. Treated surfaces should be cured by wetting 3-4 times a day during a period of 48 hours. At high temperatures wetting should be performed more frequently so that the surfaces would be maintained wet, or else, when they are exposed to direct sun, they should be covered with jute cloth and should be permanently wetted with water.

The temperature at the application of the waterproofing should be from 10°C to 30°C. During the application of Hidromal, treated surfaces should be protected against rainfall, strong draught and frost during a period of minimum 48 hours.

*Note: In case when Hidromal should be applied upon very smooth surfaces, the first Hidromal layer is prepared by adding Bond-U in the mixing proportion Water : Bond-U = 4 : 1, in order to provide good adhesion of the waterproofing to the substrate.*

## Consumption:

For three layers: 5 - 6 kg/m<sup>2</sup>

## Cleaning:

The tools and equipment are cleaned with water, immediately after use.

## Packing:

In natron bags of 5 and 25 kg.

## Storage:

In original closed packing, in dry premises, at a temperature of minimum 5°C, protected against direct exposure to sun. Shelf life 12 months.

### Health hazard:

It is necessary to avoid contact of the product with the skin (use protective gloves). The material is not toxic, however in an accidental contact, in case some skin areas have been contaminated, those spots should be immediately washed with water and soap. If the material has been splashed into eyes, they should immediately be rinsed with a lot of water and medical assistance should be asked for.

### Fire:

Hidromal is non-flammable.

### Cleaning and discarding:

Loose residues of Hidromal are cleaned with water. The old and used packing should be discarded in accordance with the local relevant regulations for that kind of waste.

We recommend for the application and the required quantities to be adjusted to the conditions of work as well as obligatory use of appropriate equipment.